



Advanced Manufacturing: Working with the Community College

AGENDA

- Short-term Customized Training
- Accelerated Math Gateway/
Engineering Pathway (AMG/EP)

Short-term Customized Training

- Needs Assessment
- Development
- Implementation
- Evaluation and Impact Measurement

Example

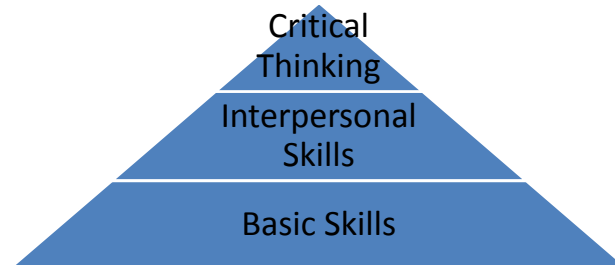
- Contacted by a local employer
- Wants to promote from within
- Wanted two paths so all employees would be included
- Few employees with the needed skills
 - ☐ High School Equivalency
 - ☐ Language skills
 - ☐ Leadership and Management
 - ☐ Hands-on skills

Stackable Certificates

Certification Pathway



Education Pathway



- ☐ Basic Skills : Reading, writing, arithmetic, math, speaking, and listening
- ☐ Interpersonal Skills: Work on teams, teach others, customer service, lead, and negotiate
- ☐ Critical Thinking Skills : Know how to learn, reason, think creatively, make decisions, and solve problems

The rumors of the demise of the
US manufacturing industry are
greatly exaggerated.

Elon Musk

NEED

- California will need 50,000+ engineers in all fields over next few years
- High employer demand
- Traditional barriers
- Math deficiencies
- Demanding multi-year post-secondary program

Program Goal

- Meet regional need for engineers
 - ☐ Alameda
 - ☐ Contra Costa
 - ☐ Santa Clara

Accelerated Math Gateway /Engineering Pathway AMG/EP

- \$6M AMG/EP Network
- 4 Separate initiatives sharing common framework and program model
- Partnership of Community Colleges, CSU system, UC campuses, NASA, and workforce agencies
- 500 Non-traditional engineering students through pathway

AMG/EP

- 2 – 2 ½ years of math in nine months
- Pathway continues w/comprehensive program of academic, social, and financial support
- Paid internships
 - ☐ NASA
 - ☐ AMES Lab
- Result: 2 year Engineering Technician AS or 5 year Engineering BS

Workforce Institute
san josé • evergreen • community college district



Carol Coen
Vice-Chancellor
Workforce, Economic, and Resource Development
408.918.5105

Suzie Clark
Project Specialist
408.918.5111